Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

							
Applicant's or agent's file reference 85P04520	FOR FURTHER ACTION	ACTION SeeNotificationofTransmittalofInternational Prelimina Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/month/year)		Priority date (day/month/year)				
PCT/EP01/11633	08 October 2001 (08		07 October 2000 (07.10.00)				
International Patent Classification (IPC) or n G02B 27/01 Applicant	ational classification and IPC						
PHYSOPTICS OPTO-ELECTRONIC GMBH							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.							
3. This report contains indications relating to the following items:							
I Basis of the report							
п Priority	II Priority						
III Non-establishment of	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of inver							
V Reasoned statement u							
VI Certain documents cit	VI Certain documents cited						
VII Certain defects in the	VII Certain defects in the international application						
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
24 April 2002 (24.04.02)		09 January 2003 (09.01.2003)					
Name and mailing address of the IPEA/EP		Authorized officer					
Facsimile No.	Telephon	e No.					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP01/11633

I. Basi	s of the report							
<u> </u>		the international application:*						
	the international applica	tion as originally 51-4						
		non as originally filed						
	the description:							
		1-93*		, as originally filed				
	pages			, filed with the demand				
57		, fi	led with the letter of					
	the claims:							
1	pages	1-44*		, as originally filed				
ł	pages			ement under Article 19				
1.	pages							
	pages	, fil	ed with the letter of					
	the drawings:							
	pages	1-10						
	pages			, as originally filed				
1	pages	, file	ed with the letter of	illed with the demand				
	he sequence listing part of	the description:						
		<u> </u>						
	pages			, as originally filed				
	pages	<u></u>	1 11 11 11 11	filed with the demand				
2 7774		, file	d with the letter of					
the in	regard to the language, all ternational application was elements were available or	the elements marked above were availa filed, unless otherwise indicated under t furnished to this Authority in the follow	ble or furnished to this Authority in his item.	the language in which				
	the language of a translati	on furnished for the purposes of internati	onal search (under Rule 23 1/b))	which is:				
	the language of publicatio	n of the international application (under	Rule 48.3(b)).					
	the language of the transl or 55.3).	ation furnished for the purposes of inte	rnational preliminary examination (under Rule 55.2 and/				
3. With prelim	regard to any nucleotide inary examination was carr	e and/or amino acid sequence discl ried out on the basis of the sequence listi	osed in the international application	on, the international				
	contained in the internation	nal application in written form.						
_		rnational application in computer readab	le form					
furnished subsequently to this Authority in written form.								
		his Authority in computer readable form	•					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		ormation recorded in computer readab	le form is identical to the written	sequence listing has				
4. 🔲 🖰	The amendments have resu							
!	the description, page	s		ľ				
	the claims, Nos.							
. <u>.</u> L		fig						
5. The be	his report has been establis eyond the disclosure as file	hed as if (some of) the amendments had i, as indicated in the Supplemental Box (not been made, since they have bear (Rule 70.2(c)).**	en considered to go				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to and 70.17).								
** Any repl	acement sheet containing s	uch amendments must be referred to una	der item 1 and annexed to this report.					
Form PCT	DEA/400 (Down D. (T. 1. 10)							

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NO

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Novelty (N) Claims 3,5-10,17-22,25-32,39-44 YES Claims 1, 2, 4, 11-16, 23, 24, 33-38 NO 3, 5, 6, 8-10, 17-22, 25, 26, 28-32, 39-44 Inventive step (IS) Claims YES Claims 1,2,4,7,11-16,23,24,27,33-38 NO Industrial applicability (IA) 1-44 Claims YES

2. Citations and explanations

Reference is made to the following documents:

Claims

D1: US-A-6 008 781 D2: WO-A-98/13720 D3: US-A-5 973 781

- 1. Claims 1, 2, 4, 11 to 16, 23, 24 and 33 to 38 do not meet the requirements of PCT Article 33(2) since they are not novel.
- 1.1 D1 discloses an information system in which light impinges on the eye. It comprises a holographic element (72) mounted in front of the eye and a projection device (80, 82, 84, 132, etc.) which projects light into the eye via the holographic element. In the embodiment in Figure 4, there is also a so-called "eye-tracker" which, via an optical scanning device (150), detects the light impinging on the eye with a sensor (146). It is implicitly clear that the comments concerning the toric element (72) also apply to the similar toric element (152), i.e. it can take the form of a holographic element.

Therefore the features of independent Claims 1, 13, 23 and 35 have been disclosed and hence the claims are not novel.

- D2 and D3 also support this objection:
 D2 (page 7, lines 15 to 18; and page 13) discloses an information system with a holographic element and a projection arrangement and a method as per Claims 13 and 35;
 D3 (column 2, line 47, to column 3, line 67) describes an information system in which light is deflected into the eye via a diffractive optical element and detected by a scanning arrangement. It is prejudicial to the novelty of Claims 1 and 23.
- 1.3 The features in dependent Claims 2, 4, 11, 12, 14 to 16, 24, 33, 34 and 36 to 38 are likewise described in D1. Therefore these claims lack novelty.
- 2. Inventive step (PCT Article 33(3))
- 2.1 D1 mentions infra-red lighting in conjunction with the projection and scanning system. Therefore the subject matter of the corresponding claims (7, 14 and 27) is obvious and requires no inventive input.
- 3. The [German] word "brechen" [literally "break"] is not a suitable technical expression for describing the action of a hologram since it describes the deflection of light beams at surfaces with a shift in refractive index. The correct term "beugen" ["diffraction"] or an expression with a similar meaning, but which should be disclosed, would be suitable.

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4. In light of the above prior art, no common inventive concept pursuant to PCT Rule 13.1 is discernible. However, it does not appear reasonable to raise an objection with the claims in their current state.